

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

<b>Application Number</b>	10/527,332
<b>Filing Date</b>	October 26, 2005
<b>First Named Inventor</b>	Ting Liu Carlson
<b>Group Art Unit</b>	1794
<b>Examiner Name</b>	Keith D. Hendricks

Sheet 1 of 3

Attorney Docket No: 17628.003US1

**US PATENT DOCUMENTS**

Examiner Initials *	US Document Number	Publication Date	Name of Patentee/Applicant of Document
	4,629,725	December 16, 1986	Hiji
	4,673,643	June 16, 1987	Schwengers
	5,116,820	May 26, 1992	Hiji
	5,141,858	August 25, 1992	Paul et al.
	5,292,723	March 8, 1994	Audry et al.
	5,578,339	November 26, 1996	Kunz et al.
	5,702,942	December 30, 1997	Leathers et al.
	5,789,209	August 04, 1998	Leathers et al.
	6,004,800	December 21, 1999	Aebischer et al.
	6,140,304	October 31, 2000	Sears
	6,235,511	May 22, 2001	Aebischer et al.
	6,242,226	June 5, 2001	Aebischer et al.
	6,339,076	January 15, 2002	Kaufman
	6,365,176	April 2, 2002	Bell et al.
	6,423,833	July 23, 2002	Catani et al.
	6,486,314	November 26, 2002	Van Geel-Schutten et al.
	6,570,065	May 27, 2003	Kossmann et al.
	7,182,954	February 27, 2007	Cote et al.
	2002/0170092	November 14, 2002	Turk
	2003/0044942	March 6, 2003	Catani et al.
	2003/0229923	December 11, 2003	Kossmann et al.
	2004/0052915	March 18, 2004	Carlson et al.
	2006/0148040	July 6, 2006	Vercauteren et al.

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document Number (include country code)	Publication Date	Translation (Abstract Only or Full Translation, if applicable)
	GB 830 951	March 23, 1960	
	DE 102 09 629	January 08, 2004	Abstract
	EP 0 153 013	August 28, 1985	
	JP 59 113856	June 30, 1984	Abstract
	WO 89/07148	August 10, 1989	
	WO 95/13389	May 18, 1995	
	WO 96/04365	February 15, 1996	
	WO 00/47727	August 17, 2000	
	WO 00/70964	November 30, 2000	
	WO 02/064810	August 22, 2002	
	WO 2004/023891	March 25, 2004	
	WO 2005/089483	September 29, 2005	
	WO 2006/088884	August 24, 2006	

EXAMINER

DATE CONSIDERED

Substitute for form 1449A/PTO and/or 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	<b>Application Number</b>	10/527,332
	<b>Filing Date</b>	October 26, 2005
	<b>First Named Inventor</b>	Ting Liu Carlson
	<b>Group Art Unit</b>	1794
	<b>Examiner Name</b>	Keith D. Hendricks
Sheet 2 of 3	Attorney Docket No: 17628.003US1	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Include last name of the first author (in CAPITAL letters), "Title of the Article", <u>Title of the Source</u> (book, magazine, journal, serial, symposium, catalog, etc.), <u>Volume-Number</u> , <u>page(s)</u> and (date).
	Argüello-Morales et al., "Sequence analysis of the gene encoding alternansucrase, a sucrose glucosyltransferase from <i>Leuconostoc mesenteroides</i> NRRL B-1355", <u>FEMS Microbiol Lett.</u> , 182(1), 81-85 (2000).
	Argüello-Morales et al., "Novel oligosaccharides synthesized from sucrose donor and cellobiose acceptor by alternansucrase", <u>Carbohydr Res.</u> , 331(4), 403-411 (2001).
	Biely et al., "Purification and properties of alternanase, a novel endo- $\alpha$ -1,3- $\alpha$ -1,6-D-glucanase", <u>Eur J Biochem.</u> , 226(2), 633-639 (1994).
	Binder et al., "Disproportionation reactions catalyzed by <i>Leuconostoc</i> and <i>Streptococcus</i> glucansucrases", <u>Carbohydr Res.</u> , 124(2), 275-286 (1983).
	Campbell et al., "Controlling subjects' prior diet and activities does not reduce within-subject variation of postprandial glycemic responses to food", <u>Nutrition Research</u> , 23, 621-629 (2003).
	Cote et al., "Acceptor reactions of alternansucrase from <i>Leuconostoc mesenteroides</i> NRRL B-1355", <u>Carbohydrate Research</u> , 111, 127-142 (1982).
	Cote et al., "Enzymically produced cyclic $\alpha$ -1,3-linked and $\alpha$ -1,6-linked oligosaccharides of D-glucose", <u>Eur J Biochem.</u> , 226(2), 641-648 (1994).
	Cote et al., "The formation of $\alpha$ -(1-3) D-glucosidic linkages by exocellular $\alpha$ -D-glucansucrases from <i>Leuconostoc mesenteroides</i> and <i>Streptococcus mutans</i> ", <u>Dissertation Abstracts International</u> , 44(12), 3747-B (1984).
	Cote et al., "Isolation and partial characterization of an extracellular glucansucrase from <i>Leuconostoc mesenteroides</i> NRRL B-1355 that synthesizes an alternating (1-6), (1-3)- $\alpha$ -D-glucan", <u>Carbohydr Res.</u> , 101(1), 57-74 (1982).
	Cote et al., "Production, isolation, and immobilization of alternansucrase", <u>Cells Abstracts Papers American Chemical Society Meeting</u> , 1 page (1994).
	Cote et al., "Some structural features of an insoluble $\alpha$ -D-glucan from a mutant strain of <i>Leuconostoc mesenteroides</i> NRRL B-1355", <u>J Ind Microbiol Biotechnol.</u> , 23(1), 656-660 (1999).
	Grimble et al., "Differences in the glycaemic response to dextran and maltodextran ingestion in man", <u>Proceedings of the Nutrition Society</u> , 56(2), 225A (1996).
	IUBMB Enzyme Nomenclature, EC 2.4.1.140 (created 1984, modified 2003).
	Jeanes et al., "Characterization and classification of dextrans from ninety-six strains of bacteria", <u>The Journal of the American Chemical Society</u> , 76, 5041-5052 (1954).
	Joucla et al., "Capillary electrophoresis analysis of glucooligosaccharide regioisomers", <u>Electrophoresis</u> , 25(6), 861-869 (2004).
	Leathers et al., "Alternansucrase mutants of <i>Leuconostoc mesenteroides</i> strain NRRL B-21138", <u>Journal of Industrial Microbiology and Biotechnology</u> , 18, 278-283 (1997).
	Lopez-Munguia et al., "Production and purification of <i>Leuconostoc mesenteroides</i> NRRL B-1355 alternansucrase", <u>Annals of the New York Academy of Sciences</u> , 613, 717-722 (1990).
	Lopez-Munguia et al., "Production and purification of alternansucrase, a glucosyltransferase from <i>Leuconostoc mesenteroides</i> NRRL B-1355, for the synthesis of oligoalternans", <u>Enzyme and Microbial Technology</u> , 15(1), 77-85 (1993).
	Monchois et al., "Cloning and sequencing of a gene coding for a novel dextransucrase from <i>Leuconostoc mesenteroides</i> NRRL B-1299 synthesizing only $\alpha$ (1-6) and $\alpha$ (1-3) linkages", <u>Gene</u> , 182(1-2), 23-32 (1996).

EXAMINER

DATE CONSIDERED

Substitute for form 1449A/PTO and/or 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/527,332
	Filing Date	October 26, 2005
	First Named Inventor	Ting Liu Carlson
	Group Art Unit	1794
	Examiner Name	Keith D. Hendricks
Sheet 3 of 3	Attorney Docket No: 17628.003US1	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Include last name of the first author (in CAPITAL letters), "Title of the Article", <u>Title of the Source</u> (book, magazine, journal, serial, symposium, catalog, etc.), <u>Volume-Number</u> , <u>page(s)</u> and (date).
	Paul, "Acceptor reaction of a highly purified dextranucrase with maltose and oligosaccharides. Application to the synthesis of controlled-molecular-weight dextrans", <u>Carbohydrate Research</u> , 149, 433-441 (1986).
	Raemaekers et al., "Production of alternansucrase by <i>Leuconostoc mesenteroides</i> NRRL B-1355 in batch fermentation with controlled pH and dissolved oxygen", <u>J. Chem. Tech. Biotechnol.</u> , 69, 470-478 (1997).
	Remaud-Simeon et al., "Glucansucrases: Molecular engineering and oligosaccharide synthesis", <u>Journal of Molecular Catalysis B: Enzymatic</u> 10, 117-128 (2000).
	Remaud-Simeon et al., "Glucansucrases: Structural basis, mechanical aspects, and new perspectives for engineering", <u>ACS Symposium Series</u> , 849, 90-103 (2003).
	Robeson et al., "Expression of a <i>Streptococcus mutans</i> glucosyltransferase gene in <i>Escherichia coli</i> ", <u>J Bacteriol.</u> , 153(1), 211-221 (1983).
	Smith et al., " <i>Leuconostoc mesenteroides</i> B-1355 mutants producing alternansucrases exhibiting decreases in apparent molecular mass", <u>Appl Environ Microbiol.</u> , 63(2), 581-586 (1997).
	Zahnley et al., "Cellular association of glucosyltransferases in <i>Leuconostoc mesenteroides</i> and effects of detergent on cell association", <u>Appl Biochem Biotechnol.</u> , 87(1), 57-70 (2000).
	Zahnley et al., "Insoluble Glucan Formation by <i>Leuconostoc mesenteroides</i> B-1355", <u>Appl Environ Microbiol.</u> , 61(3), 1120-1123 (1995).

EXAMINER

DATE CONSIDERED